

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000896

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B23P 15/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B23P, F28D, B21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2129538 A (ERIC SMITH), 16 May 1984 (16.05.1984), figures 1-7, claims 1-13, abstract	6
A	--	1-5
X	US 4099928 A (PER S. NORBACK), 11 July 1978 (11.07.1978), figures 1-10, claims 1-11, abstract	6
A	--	1-5

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 Sept 2004

Date of mailing of the international search report

16 -09-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Fredrik Andersson/MP
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000896

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2048130 A (BORG-WARNER CORPORATION), 10 December 1980 (10.12.1980), figures 1-10, claims 1-12, abstract	6
A	--	1-5
X	US 5908070 A (SOICHI KATO ET AL), 1 June 1999 (01.06.1999), figures 1-8, claims 1,2, abstract	6
A	--	1-5
X	US 2003/0121649 A1 (THOMAS F. SEILER ET AL), 3 July 2003 (03.07.2003), figures 1-31, claims 1-43, abstract	6
A	-- -----	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

31/07/2004

International application No.

PCT/SE 2004/000896

GB	2129538	A	16/05/1984	GB	8328445	D	00/00/0000
US	4099928	A	11/07/1978	DE	2631962	A	20/01/1977
				FR	2318398	A,B	11/02/1977
				JP	52041946	A	31/03/1977
				SE	7508256	A	19/01/1977
GB	2048130	A	10/12/1980	BR	8002581	A	09/12/1980
				CA	1154577	A	04/10/1983
				DE	3013317	A	06/11/1980
				ES	491032	A	16/08/1981
				ES	8202502	A	01/05/1982
				FR	2455704	A	28/11/1980
				IT	1141939	B	08/10/1986
				IT	8021704	D	00/00/0000
US	5908070	A	01/06/1999	DE	19723801	A,C	11/12/1997
				JP	9329397	A	22/12/1997
				KR	254329	B	01/05/2000
US	2003/0121649	A1	03/07/2003	NONE			